Amateur Radio Briefing

When All Else Fails

What is the CEMP

- Comprehensive Emergency Management Plan
- Master Plan for All Emergency Management Agencies
- State, County and Local Jurisdictions have one

Emergency Support Functions

- ESF 1 – Transportation
- ESF 2 – Communications
- ESF 3 – Public Works
- ESF 4 – Firefighting
- ESF 5 – Emergency Management
- ESF 6 – Mass Care
- ESF 7 – Resource Management
- ESF 8 – Health

- ESF 9 – Search & Rescue
- ESF 10 – Ecology
- ESF 11 – Agriculture
- ESF 12 – Energy
- ESF 13 – Public Safety
- ESF 14 – Long Term Recovery
- ESF 15 – External Affairs
- ESF 20 – Defense Support to Civilian Authorities

Where is Amateur Radio in the Plan?

CEMP

ESF- 2

RACES Plan

- Amateur Radio is a part of the CEMP, within EFS-2, under Telecommunications and Warning Systems

Winter Storm Activations

Woodinville firefighters Jesse Disch, left, and Justin Ralph pull residents of the Archstone Apartments and their pets to safety (Steve Ringman/Seattle Times)

Flooding

I-5 overpass in Chehalis looking south (AP, December 4, 2007)

Landslides

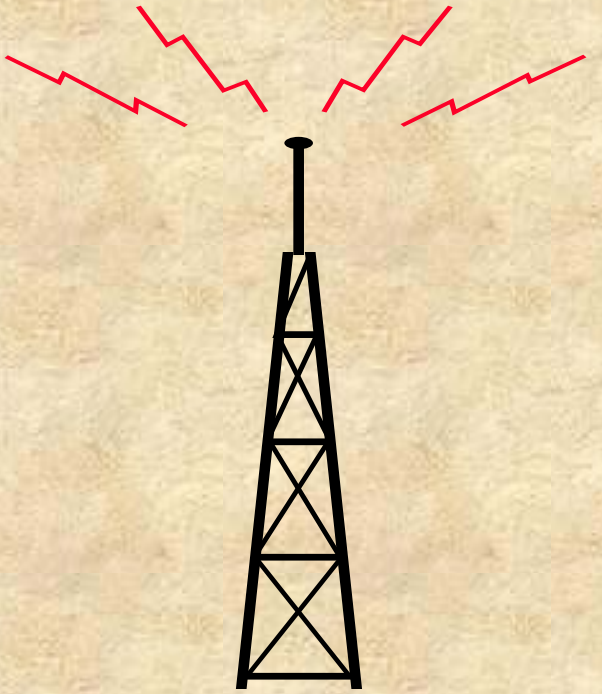
Naches Landslide in Hwy 410 outside Yakima (October 2009)

Flooding

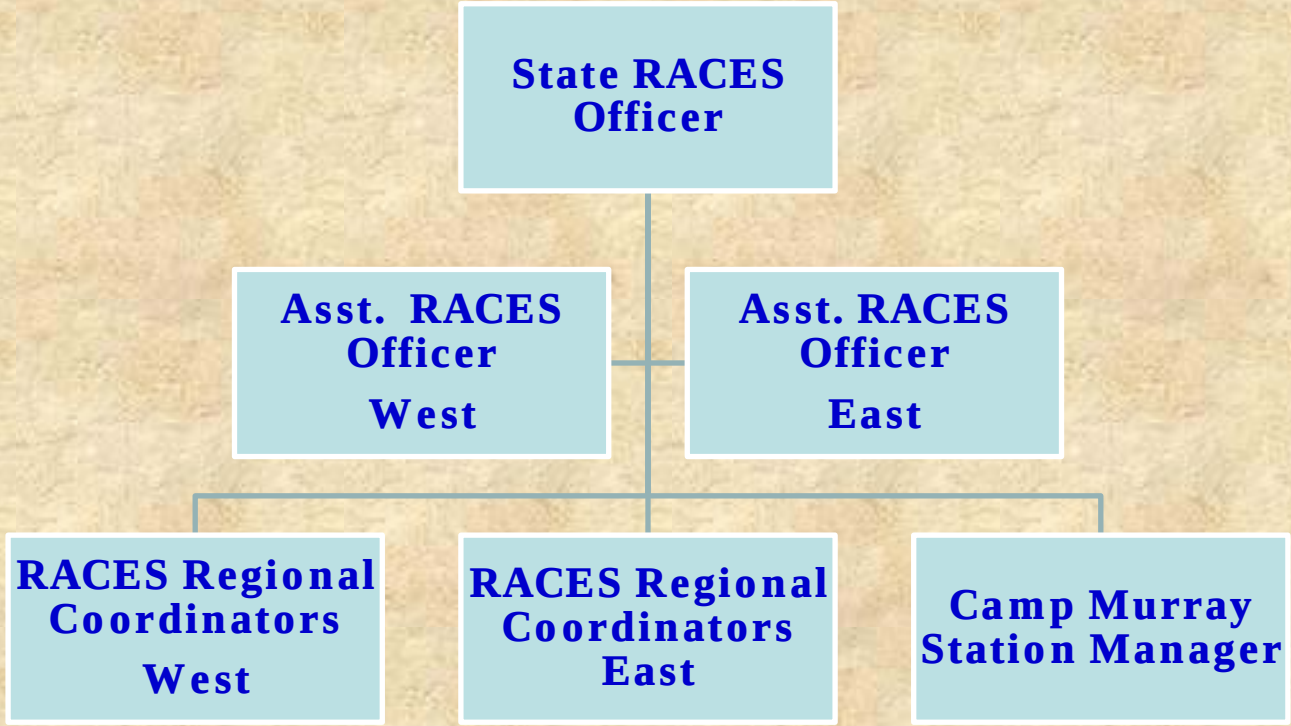
I-5 overpass in Chehalis looking north (January 9, 2009)

Radio Amateur Civil Emergency Services (RACES)

- FEMA sponsored program for ensuring emergency communications are available
- Support provided by amateur radio licensed, emergency worker registered volunteers
- Support includes voice and data radio capabilities
- State RACES plan governs how amateurs are to be used.
- Establishes nine RACES regions



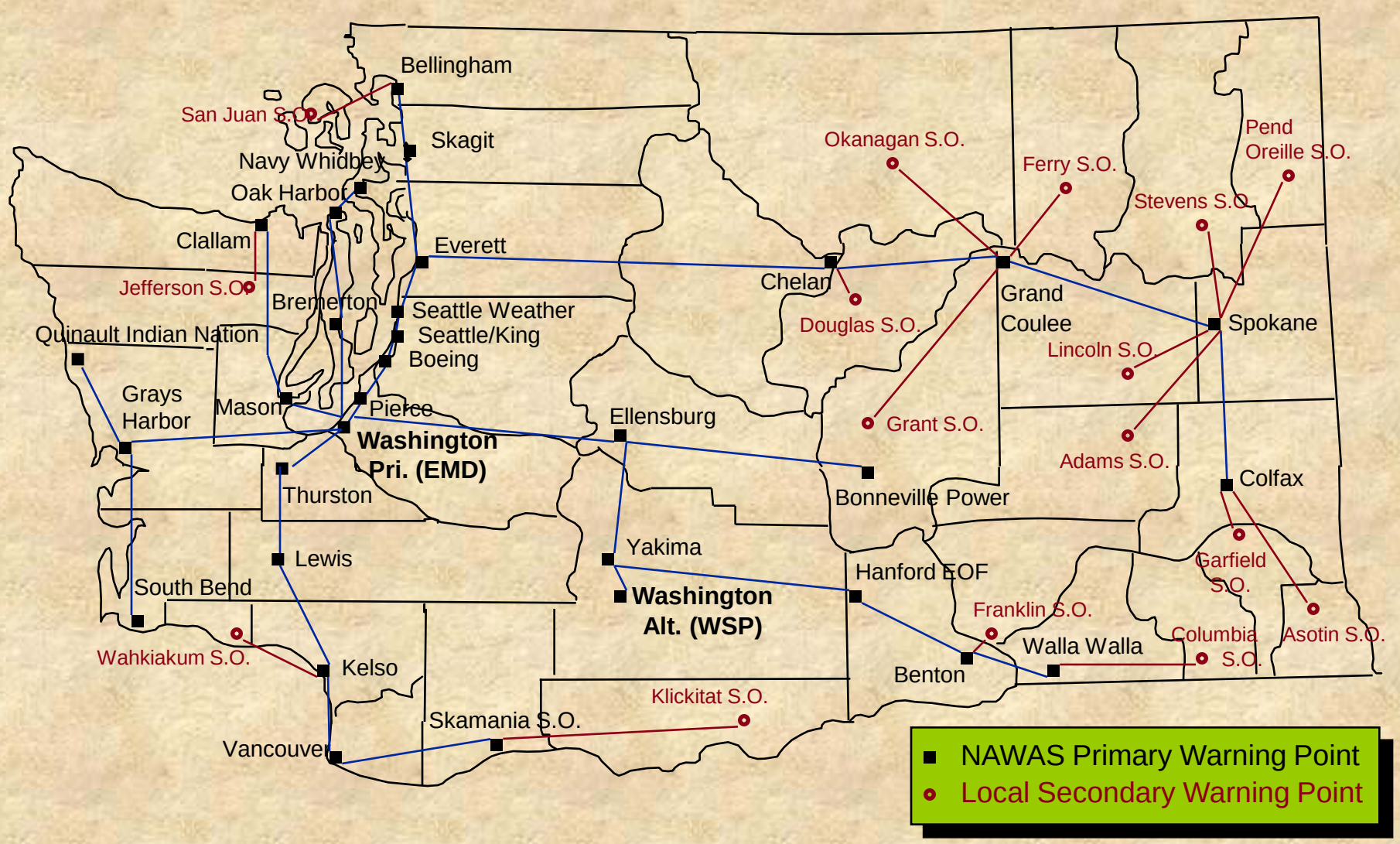
Coordinating Team



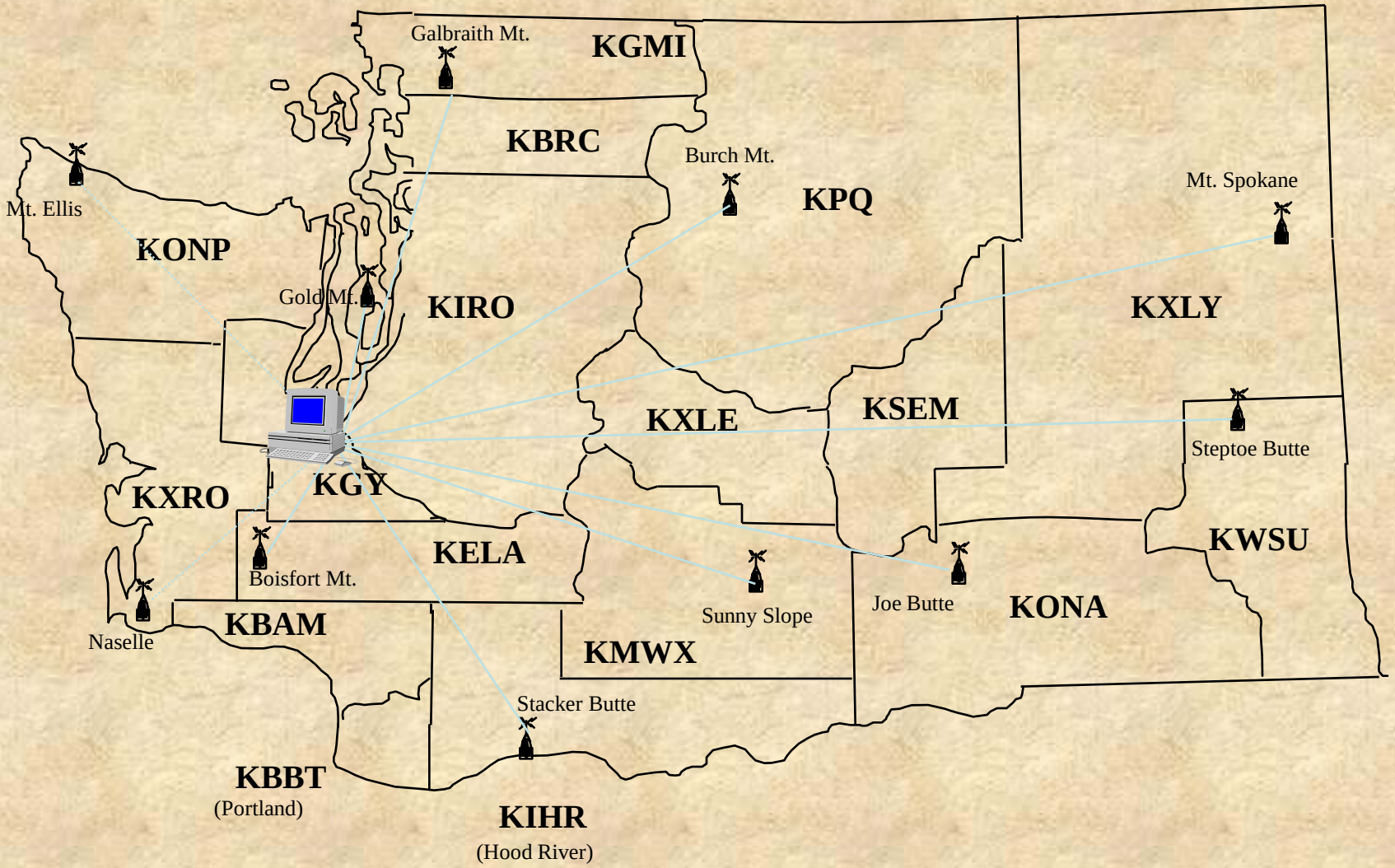
Telephone

- Primary means of communications
- PBX Ayava G3si
- Use Direct-Inward-Dial for incoming calls, Centrex service for outgoing calls via SCAN

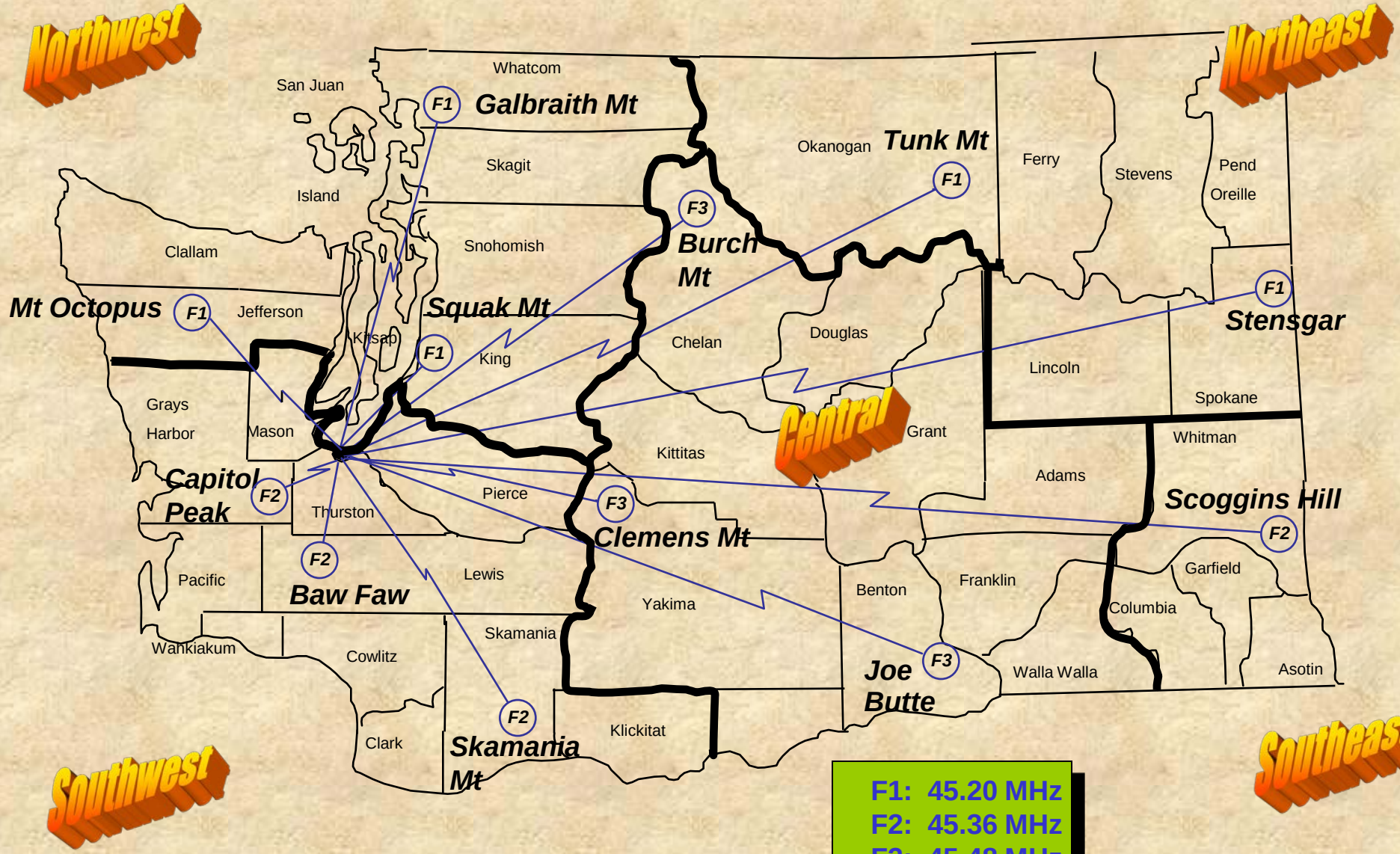
National Warning System (NAWAS)



Washington EAS State Relay Network



Washington State Comprehensive Emergency Management Network (CEMNET)



What If There is a System Failure??

What's Behind This Door?

ALTERNATE
HIGH FREQUENCY
SSB VOICE - 150 WATTS
+
440 MHz FM VOICE
POSITION #7
TRI-BAND 50 / 144 / 440 MHz
FM VOICE
+
222 MHz FM VOICE
AMATEUR W7EMD
FEDERAL WGY930
FCC / LMR KNHH597

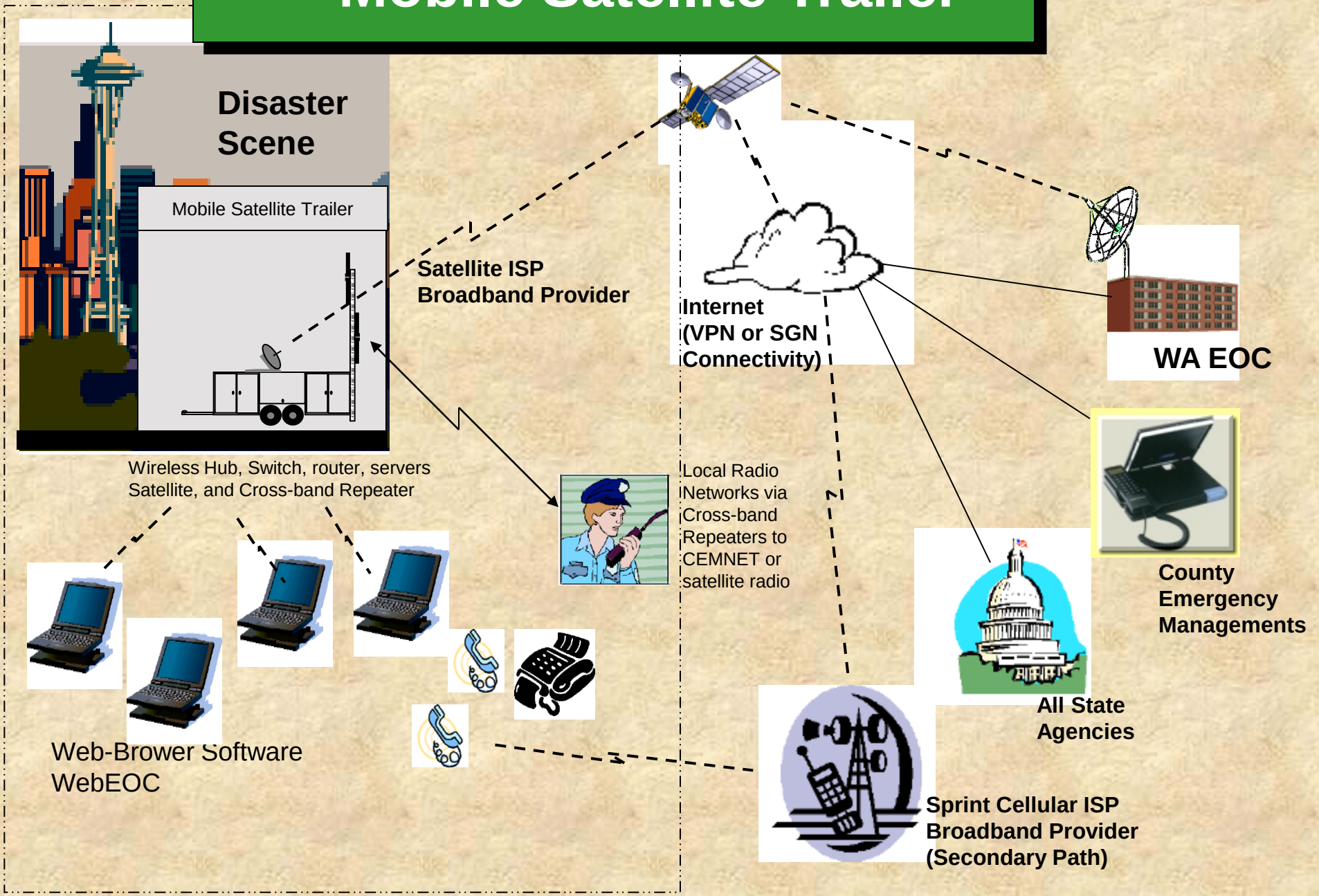
W7EMD

POSITION #6
ALTERNATE
HIGH FREQUENCY
SSB VOICE - 150 WATTS
+
440 MHz FM VOICE
POSITION #7
TRI-BAND 50 / 144 / 440 MHz
FM VOICE
+
222 MHz FM VOICE

-Viktor-

Photo by Vincent Laforet / The New York Times

Mobile Satellite Trailer



How Do You Access Amateur Radio Assets?

Telephone
Email
WebEOC
Established Amateur Radio Networks
Walk In

OUR PLAN

STATE RACES PLAN
Or
State Amateur Radio
Emergency
Communications Plan

Plan Construction

- Review Existing Plan
- Determine Needs and requirements
- Gather Information from Field Units
- Other Research

- Develop Draft
- Review
- Corrections
- Final Draft
- TelComm Review
- EOC Review
- Planning Review
- Publish

Purpose

The purpose of this plan is to provide guidance, establish responsibility, and ensure coordinated operations between State of Washington government officials (state/local) and amateur radio emergency communications organizations

The Plan Does Not

Replace or remove the authority of the local Emergency Management Jurisdiction. The plan *only* provides support when requested to do so by the local jurisdiction.

Definitions

ARES

RACES

MARS

ACS

WSEN

ARC

SATERN

OTHER

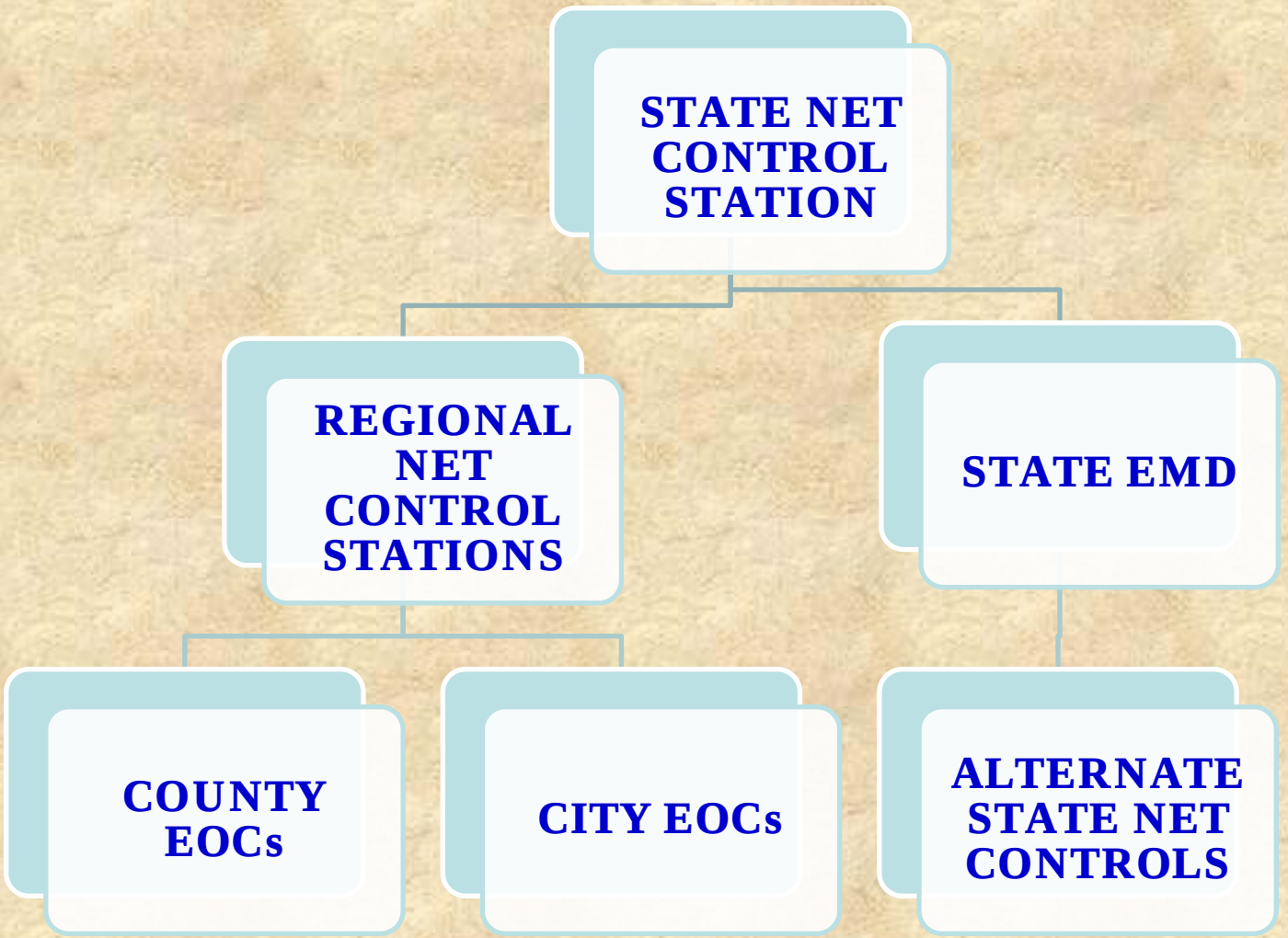
The Heart of the Plan
Annexes

Annex A	Network Levels
Annex B	Regional and Statewide Frequencies
Annex C	Message Forms
Annex D	Mutual Assistance Requests
Annex E	Resource Lists
Annex F	W7EMD/W7SEM
Annex G	Pro Words and Phrases

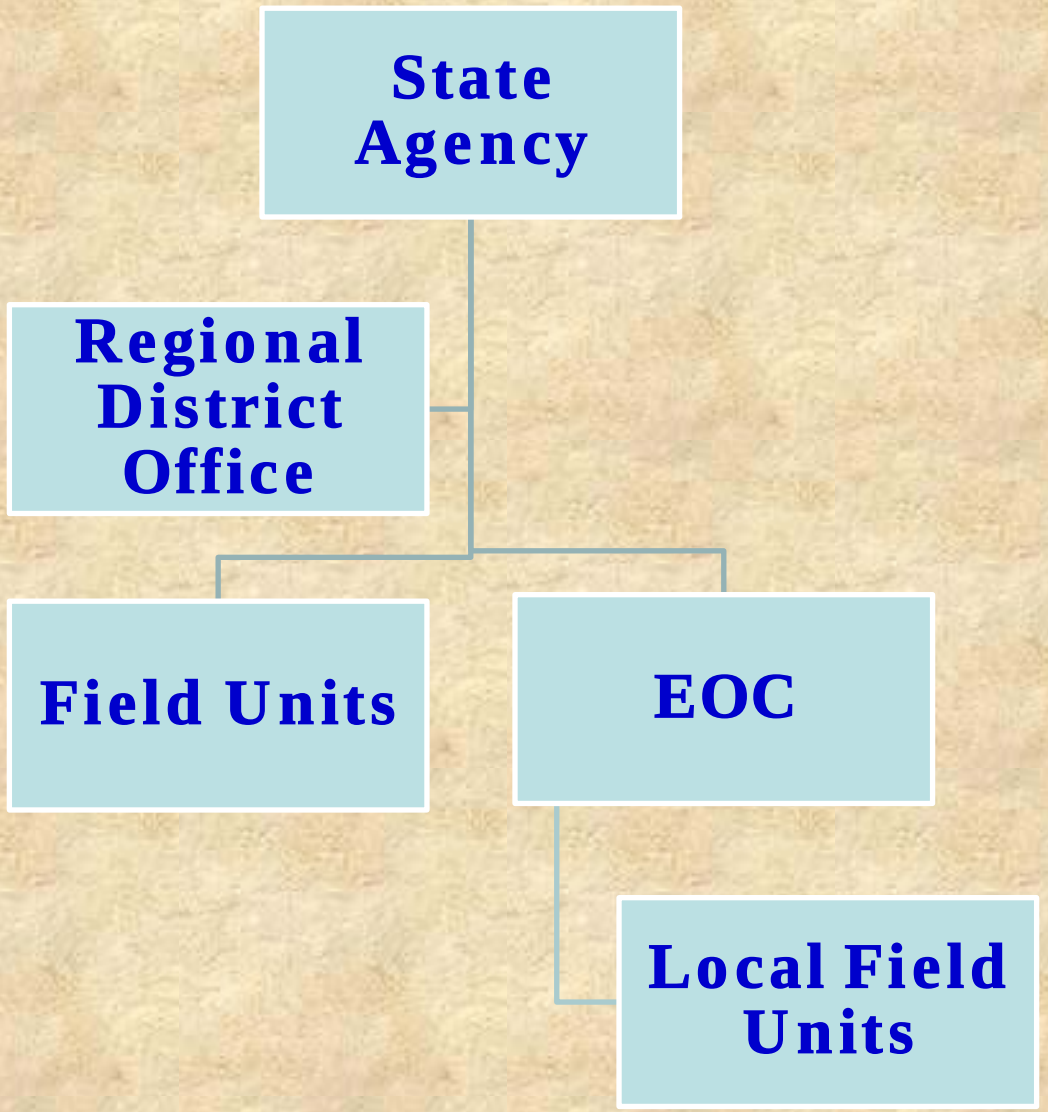
Annex A

Network Levels

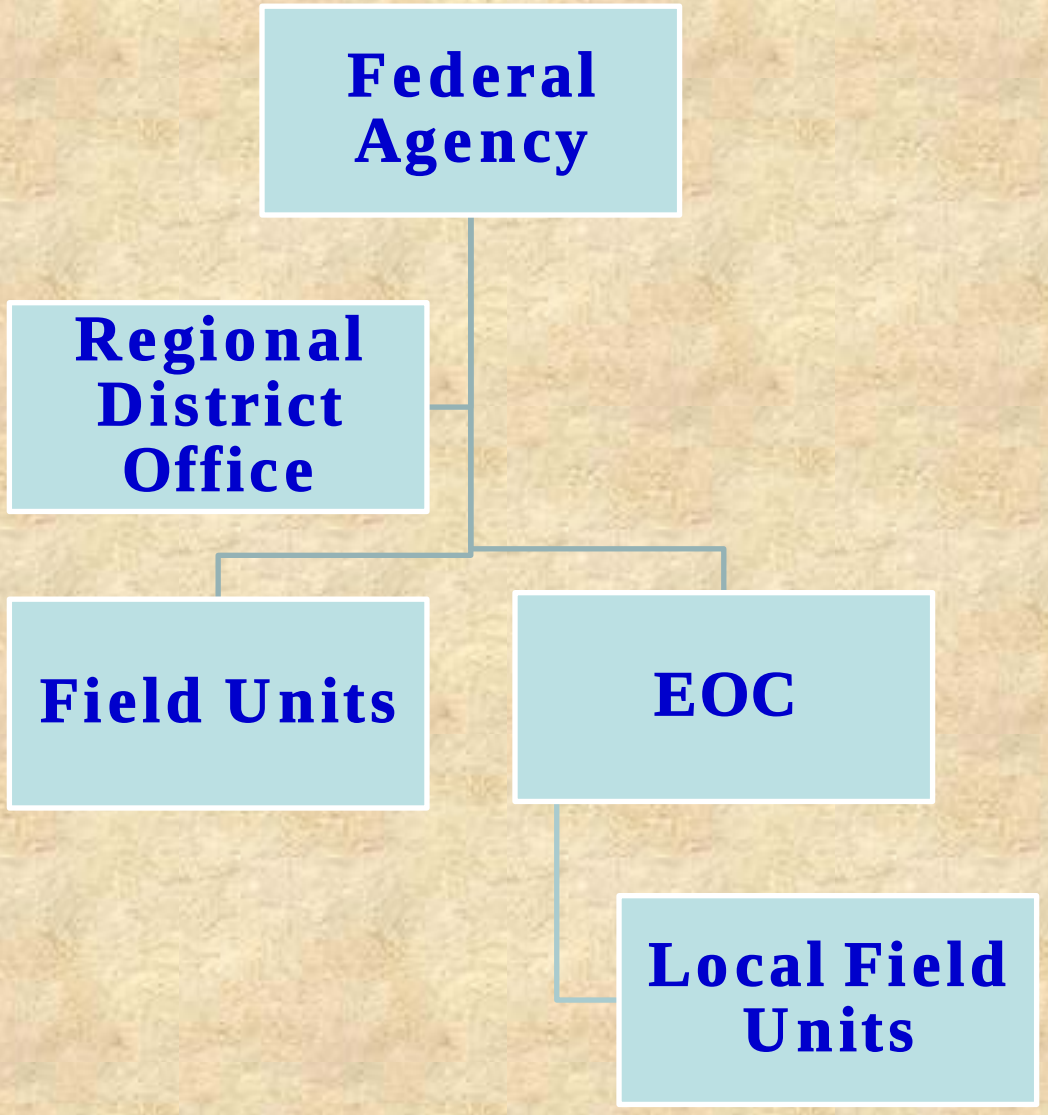
Command 1 Network



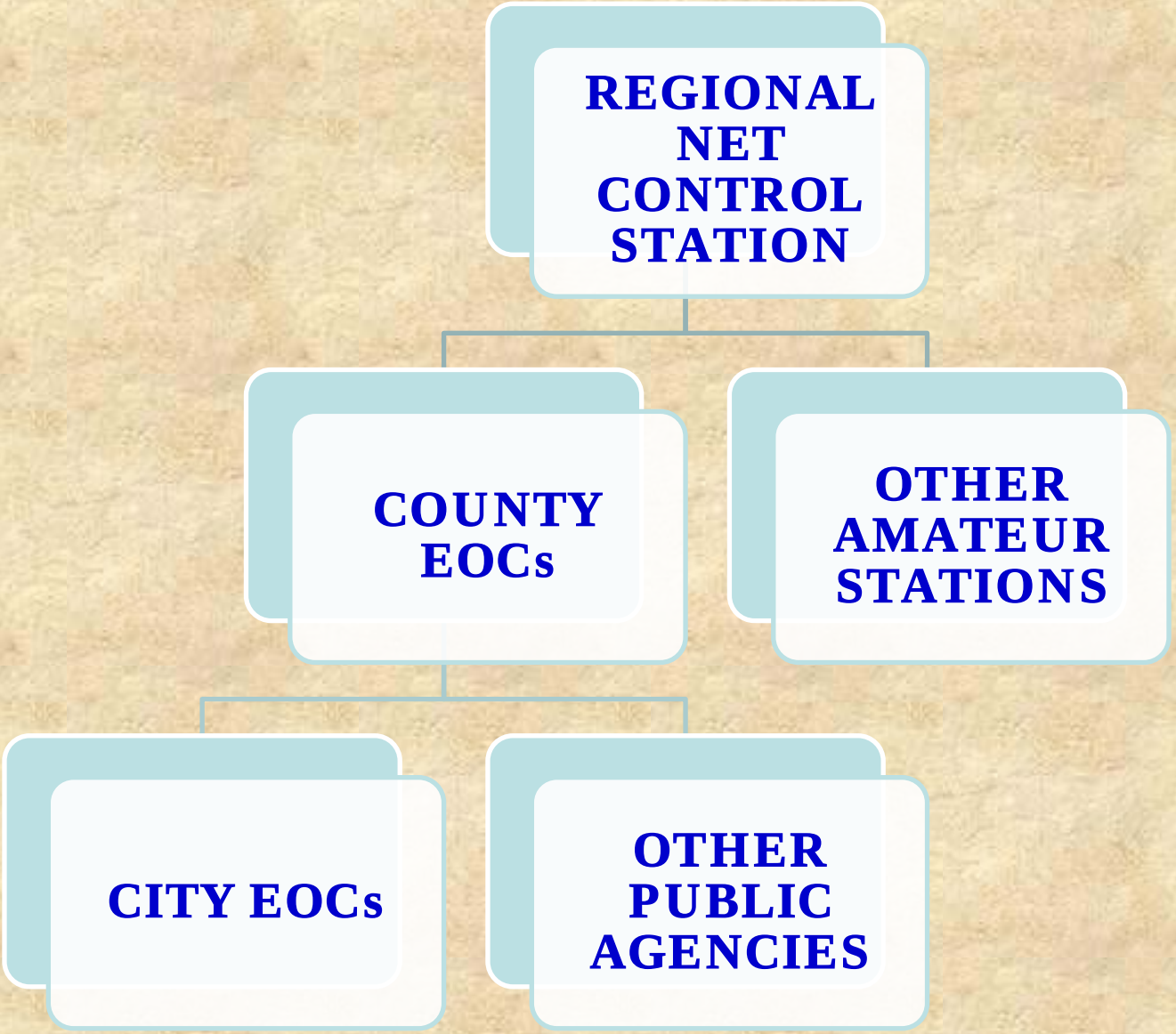
Command 2 Network



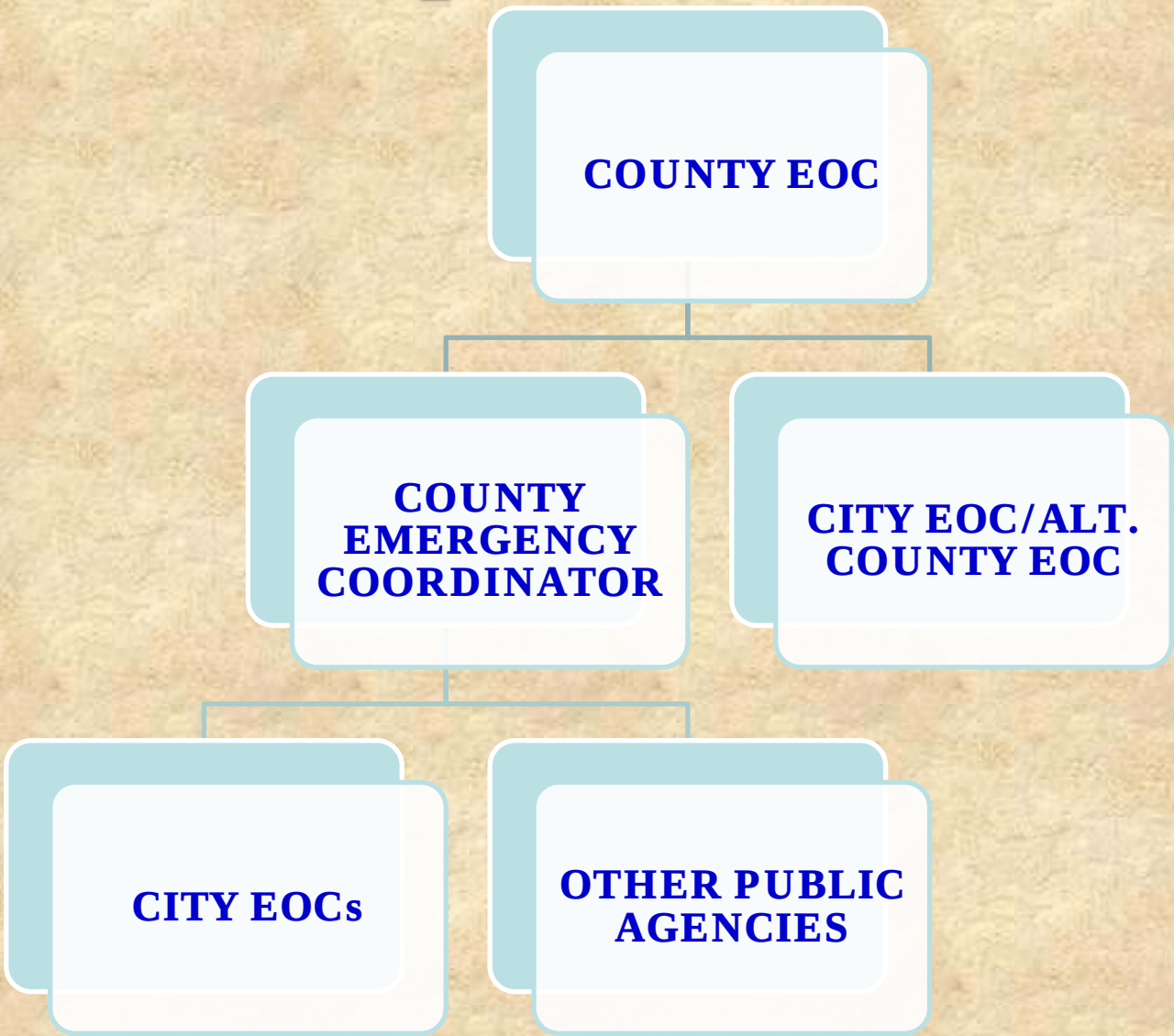
Command 3 Network



Ops 1 Network



Ops 2 Network



Annex B

Regional and Statewide Frequencies

Regional Coordination Nets

- Region 1 145.190
- Region 2 53.370
- Region 3 145.470
- Region 4 224.720
- Region 5 145.370
- Region 6 147.080
- Region 7,8 & 9 3.990 LSB
- Medical Services Team 146.900

Other Important Frequencies

- WSEN 3.985
- WSEN (Alternate) 7.245
- HF Packet 3.624
- Other
  - 60 Meters
  - MARS
  - APRS
  - Added as needed

Annex C

Message Forms

Various Forms

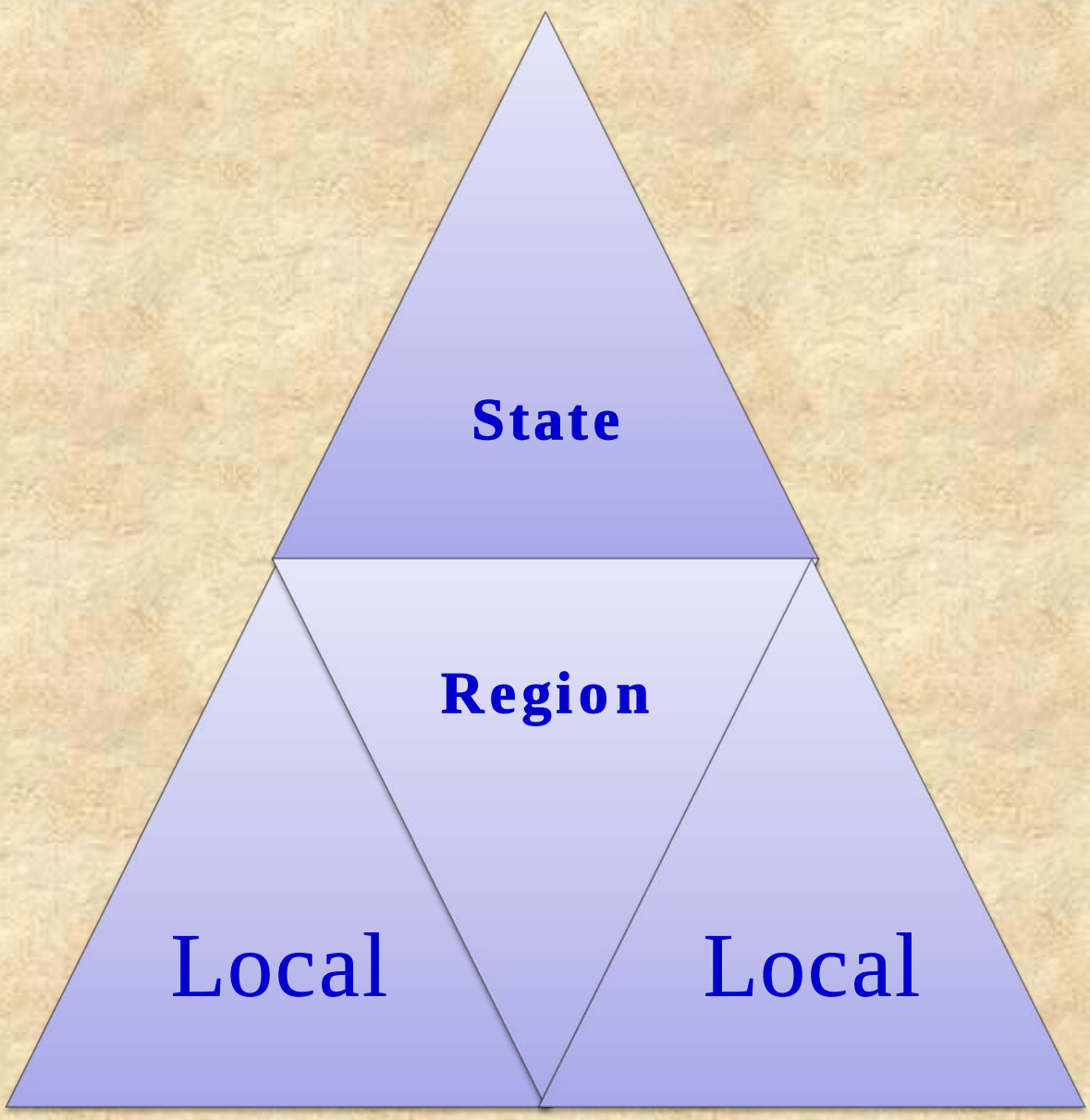
- ICS 213
- ARRL NTS
- Modified NTS (Used by Camp Murray)
- Internet (To, From, Subject)
- MARS Formats
- Hybrid Forms

They All Have

- Preamble
- Address
- Text
- Signature
- **Instructions**

It's Just a Matter of Learning to Convert From one Form to Another

Annex D – Mutual Assistance



Annex E – Resources List

- Keep Current
- Keep Complete
- Review Periodically
- Make Available to Other Teams

Annex F – W7EMD/W7SEM

- **Assets Available**
  - **Supervision and Authority**
    - **Become a Member of the Team**

Annex G – Pro Words & Phrases

- **International Phonetic Alphabet**
- **Q & Z Signals**
- **Pronunciation**
- **Specific Words such as**
  - **Roger Means Received**
  - **Affirmative Means Yes**

Recommended …. Not Required

What Makes a Plan Work

- **Review and Update**
  - Test, Test and More Test
  - Look to the Future
  - Cooperation

Questions ?